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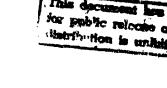
THE PUEBLO INCIDENT: A FOLLOW-UP SURVEY CONDUCTED EIGHT YEARS AFTER THE RELEASE OF THE USS PUEBLO CREW FROM NORTH KOREA

the book with

R. C. SPAULDING

MEPOR: NO. 78-37







NAVAL MEALTH RESEARCH CENTER

SAN DIEGO, CALIFORNI> 92152

MAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND BETHESDA, MARYLAND

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The Pueblo Incident: A Follow-Up Survey Conducted

Eight Years After the Release of the

USS Pueblo Crew from North Korea*

Raymond C. Spaulding
Captain, Medical Corps, U. S. Navy
Center for Prisoner of War Studies
Naval Health Research Center
San Diego, California 92152

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* Repure No. 78-37. The views presented in this paper are those of the author. No endorsement by the Department of the Rax: has been given or should be informed.

hoknowledgements: The author is pleased to acknowledge the assistance in coding and data analysis which were provided by Mr. James Phelan and Mr. Lester Murphy; and preparation of tables by Ms. Lucile Cheng.

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Abstract

The 81 surviving USS Pueblo crew members* were given extensive medical and psychiatric examinations on December 23, 1968. This was within 48 hours of their release after eleven (11) months' incarceration by the North Koreans.

The last group medical examination of the Pueblo crew was in April 1969. A questionnaire was mailed in early 1977 to the Pueblo crew members. The questions requested information regarding their health and adjustmer since April 1969. The incidence and scape of symptoms and diseases, morbidity, disability, marital adjustment and current life styles was addressed. The survey inquired into the following major areas: (a) interim mutical history and chronological development of illness, if applicable; (b) occupational experiences; (c) educational experiences; (d) marital history including children; (e) residential history; (f) interpersonal relationships; (g) military experience, and (h) attitudinal changes as influenced by the incarceration experience.

"Voluntary Informed Consent: Each individual that conticipated in this study signed a detailed Voluntary informed Consent form which in part contained the following: "I also consent to have up data used in any published scientific reports of this investigation, subject to the assurance of enonyming."

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Introduction

This paper will report on the results of the health and adjustment of former USS Pueblo crew members obtained from a mailed out questionnaire eight years following their release by their North Xorean captors.

There had been no group examination of this unique group since March 1969, approximately four months after their eleven months of incarceration. Survey questionnaires have been used previously by the Medical Follow-up Agency, National Research Council for sampling former American POWs from World War II and the Korean Conflict.

There are many methodological problems that arise when conducting a mailed survey instead of personally examining and interviewing each participant in the study. The lack of a control group was also another detraction to this study, the crew of the USS Banner (AGER-1) would have been an ideal control group, but the USS Banner, a sister ship, was decommissioned a number of years ago. Later in this paper numerous investigators will be referenced who have hypothesized that the stress of incarceration as a POW or persecutee in a concentration camp may be one of the etiological factors which can produce a variety of late appearing physical and/or psychological symptoms frequently seen in individuals who have undergone incarceration.

Mattussek² reported that analysis of the individual subject's complaints were statistically more accurate than using the diagnoses made by interviewing physicians. It became apparent that a number of physicians, when given the same cluster of symptoms, would make different diagnoses. Therefore, it is hoped that this survey, albeit subjectively, compiled will provide some indication of the direction of the chronological health and adjustment of the Pueblo crew members eight years after their release from incarceration.

Background

On January 23, 1968, the USS Pueblo (AGER-2) was fired upon and captured in International waters in the Sea of Japan, off the coast of North Korea. The gunfire from the attacking patrol boats killed one U.S. Navy enlisted man. Seven other crew members were wounded, two of them sustained serious injuries but survived. The USS Pueblo was boarded and escorted into Wonson Harbor.

The 82 surviving crew members and all of their official military Health and Service Records were transferred to a temporary prison - nicknamed by the crew -- "The Rarn" -- because of the predominant odor that permeated the entire area. This was in the vicinity of Wonson.

All of the Pueblo crew members report that they were "forcefully interrogated" for a number of days, frequently being told -- "you will be shot unless you confess." Eventually the entire crew "confessed" -- in writing -- to the charges that the USS Pueblo had "intruded into the territorial waters of the Democratic Peoples Republic of North Korea."

On March 5, 1968, the entire crew was transferred by train to a permanent military facility near Pyongyang. At this second facility officers were placed in single rooms which were sparsely furnished but, they were lighted and heated. The remainder of the crew was randomly assigned to similarly furnished rooms which accommodated eight individuals -- except for one room that housed four crew members. The composition of the personnel in these rooms would remain the same until December 23, 1968, when the crew would be released to the American authorities. The crew would be struck and/or interrogated throughout the captivity period for breaking minor prison rules, for example -- not bowing -- or talking in certain areas or at improper times. However, the crew was allowed to assemble as a group for calisthenics nearly every day.

The majority of the crew reported that they were anxious and, during the first days immediately after their capture, feelings of guilt that followed the "confessions," for the most part, were transitory and modified by shared rationalizations with other crew members.

The North Koreans attempted, through lectures, field trips and written material, to convince crew members of the injustices of the U.S. "imperialist" government.

In the fall of 1968 there were signs of increased friendliness by the Koreans, which were interpreted by the crew as an indication of increasingly good prospects for release. However, in the first week of December 1968 the attitude changed and "Hell Week" was supplanted. Apparently the Koreans had learned the meaning of some details released to families by mail and of the obscene gestures which appeared in photographs. Physical maltreatment increased to its most intense level since their capture.

Suddenly and, unexpectedly, on December 19, 1968, the maltreatment was reversed. On December 23, 1968, the crew was returned to South Korea, walking single file across the bridge connecting the Koreas at Panmunjum. Each man received a screening physical examination and was provided with an American uniform. The crew was flown to the Naval Regional Medical Centur, then called the U.S. Naval Hospital, San Diego, California for a

more thorough evaluation and debriefing. They arrived on Christmas Eve into an emotionallypacked welcome home provided by relatives and the people of San Diego.

The return of the 82 surviving Pueblo crew members on December 24, 1968, made it possible to evaluate physically and psychiatrically a group of men that had been imprisoned for eleven months in a hostile country. The background characteristics of the crew were highly varied but the imprisonment experience was similar — thus permitting the evaluation of how different personality types tolerated the adverse situation of captivity. The results of these studies have been previously reported. 3,4,5 In addition, there have been numerous accounts of the "Pueblo Incident" written by members of the crew. 6, 7, 8, 9, 10

The scientific literature abounds in reports of studies about the health and adjustment of former prisoners of war and/or survivors of concentration camps. The United States National Research Council, Follow-Up Agency reported that former American prisoners of war that had been imprisoned by the Japanese and North Koreans during World War II and the Korean Police Action had significantly higher rates of morbidity and mortality than did control subjects. Segal, 12 reviewed the literature on the Long-Term Psychological Effects of the POW experience.

Review of the Current Literature

Eitinger 13 and Thygesen 14 extensively studied, physically and psychiatrically, survivors of German concentration camps. From these studies the investigators delineated a cluster of symptoms, called the Concentration Camp Syndrome (KZ). It was their suggestion that the early aging observed in former prisoners of war and/or concentration camp survivors was caused by the concentration camp experience.

German, Romanian and Danish investigators ¹³ have attributed the etiology of the KZ syndrome to the sequelae of trauma received during torture, toxic conditions, severe and/or prolonged malnutrition which, either singly or in combination, produced clinically diagnosable organic brain disease. Some French and Russian investigators ¹³ attributed the etiology of progressive debility to an "overburdened hypothalmus" which was due to the severe, continued psychological stress to which concentration camp survivors were exposed.

Eitinger¹³ reported "a clear correlation between the severity of the KZ syndrome and the signs of encephalopathy and the severity of conditions experienced by the patient during incarceration." Thus, Eitinger¹³ concluded that the KZ syndrome was the result of organic brain damage caused by conditions of imprisonment (namely -- trauma, malnutrition, intercurrent infections, psychological stress and so forth).

Authorn	KLIMKOVA- DEUTSCHOVA, E.,	HERMANN, & , and THYGESEN, P.	eitinger, L.	HERMANN, K., and THYGESEN, P.	PAUL, H.:
Examination period:	1945-1961	1951-1953	1957-1961	1964	1958-1962
examentori personi Personsi	200 former concentra- tion cattap in masses and members of combat units	120 former members of the resistance (concentration camp immates)	100 persons incorcerated in German concentration cuaps, Norwegian and Japanese camps	225 former members of the resistance (concentration camp inmeter)	50 former persecutives (not concentration car instates) of verious national origina
Origin of cases	Examination to assess eligibility for compensa- tion	Follow-up examination at request of en accident insurance insuitates (re-assessment of com- pensation)	Follow-up examination at request of the Auto- cation for Disabled Barricemen (Kriego- involidenverband) (re-supmentant of com- pensation	Follow-up examination for acientific purposes	Ryamination to assess eligibility for compen- earion
Complaints	*	%	*	16	*
Lannitude	40		85		
Nervoumen, lanitude			78		
Poor memory	14.5	87	78	57	AS
Dysphreic mood			72		
Fanctional inecability		36	70		92 (mood affected)
Seep disturbences	41		61	65	84
Anxiety	36	62	55		68 (during day)
Feelings of inadequacy			54		
Loss of iniciative			54		
Headaches	53.5		53		98
Vegetative complaints	42		48		
Giddiness	24		43		92
Anxiety dresms	10		36	67	82
Depressions	34.5	67	36		
Trembling	23		21		
Alcohol abuse			19		
Reduced alcohol tolerance			14		50
Diffuse pain and paresthesis			14		
Tinnine			15		
Affective instability (irritability)	25	73		80	100
Oversonskilvity to noise		43			68
inability to concentrate		78		62	
Vertige (height-induced)					80
Difficulties in making social contact					44
Weeplaces				more ghan 90	66
Easily tired					64
Excessive sweeting				71	56
Hypersonnia during the	12				
day					
	57				

Table 22 (pp 52-53) Refer ace 2

 ${\sf Matussek}^2$ interviewed 245 former persecutees and selected 188 concentration camp survivors from German concentration camps who had submitted claims for disability.

The disability claims were based on: 1) impaired health, 2) financial losses, 3) loss of freedom, or 4) impaired caree: prospects. Thus individuals were included in this sample who had never submitted claims to the Regional Indemnification Office, Munich, claiming impaired health.

The number of psychologically healthy individuals in the sample was "very small". In contrast to the widely held view that there is one specific type of late injury resulting from incarceration in a concentration camp, these subjects displayed a broad spectrum of somatic and psychological complaints occurring long after the date of liberation. It was noted that not one of these complaints was significantly correlated with the duration of incarceration.

The possible ethological factors as proposed by Matussek include: 1) sociological characteristics such as gender, age in 1960 (15 years after release), reasons for persecution, country of origin and country of residence following repatriation; 2) persecution stress, severity of work situation, severity of camp, duration of incarceration, loss of relatives, and illnesses suffered during incarceration, and 3) developmental influences of childhood and adolescence.

It was concluded that each individual reacts in different ways to extreme stress.

"There is no specific late-injury syndrome. The reactions can take the form of psychic, psychophysical or purely somatic illness syndromes. The choice of the mode of reaction depends both on the severity of the stress combined with the development of the individual's personality prior to incorrectation."

Of the 188 selected 170 submitted a claim for pension because of illness of injury resulting from concentration camp incarceration. There were 18 individuals who made no application, "non-applicants," for a disability pension based on medical claims. The remaining 170 individuals medical records were reviewed however, 26 were not available for an interview, because of death, prolonged absence, or they refused to be interviewed. The group of 144 remaining individuals were given psychological interviews. The chief complaints obtained depended on the interest of the physician conducting the interview and are shown in Table 2.

TABLE 2

Late-Appearing Dainage to Health

Somatic complaints (n = 144)

Complaint	Mentioned in medical examinations	Mentioned in pay chological interviews	Level
Vegetative complaints	#5 (59.7%)	48 (33.7%)	h.s.
Dentsi complaints	53 (36.8%)	19 (13.3%)	h.e.
Rheumatic complaints	48 (33.7%)	24 (16.5%)	6.8
Cardiovascular complaints	95 (66.0%)	68 (47.2%)	A.S.
Head compleints	64 (44.4%)	42 (29.3%)	\$.B.
Heperic/billious complaints	35 (24.5%)	16 (11.2%)	5.B.
Urological complaints	24 (16.8%)	8 ((5.6%)	8.8.
Spinal culumn complaints	48 (93.7%)	30 (20.8%)	6.
Defective sight/hearing	35 (24.5%)	21 (14.1%)	6.
Pulmonary-bronchial complaints	57 (39.6%)	41 (28.7%)	6.
Intestinal complaints	27 (18.7%)	13 (9.1%)	£.
Stomach complaints	61 (+2.6%)	50 (34. 8%)	
Complaints resulting from mistreatment	22 (35.3%)	19 (13.3%)	~~
Neurological complaints	11 (7.6%)	8 (5.6%)	
Chronic anginose throat conditions	9 (6.3%)	0 (0%)	
Circulation problems (following frostbite)	5 (3.5%)	4 (2.8%)	
Skin en.ptions	1 (0.7%)	0 (0%)	
Gynarcological complaints (38 women)	14 (37.8%)	10 (27.0%)	

aThe difference between the figures for the medical examinations and the psychological interviews was usued for significance using the four-field chi-square test (h.s. = 0.1%; s.s. = 1%; s. = 5% level of significance).

Psychological complaints (n = 144)

Compleints	Mondo nod in modical	Mentioned in psychological	Level significance
Mistrust, shyness, difficulty in making social contact	6 (4.2%)	62 (43,4%)	h.a.
Pealing of inclation	2 (1.4%)	54 (37.8%)	h.a.
Anxiety dreams	28 (19.4%)	75 (52,5%)	h.a.
Peelings of hatrod	0 (6%)	31 (21,6%)	h.s.
Personid idention	1 (0.1%)	21 (14,7%)	h.a.
Inner agitation, irritability	41 (28.5%)	72 (50,2%)	h.s.
Depressive snood	43 (29.9%)	61 (42,6%)	A
Elsep disturbances	45 (31.3 %)	46 (32,2%)	
Anxiety states	29 (20.1%)	33 (22,9%)	
Temporury or partial amnosia	32 (22.2%)	59 (27.3%)	
Tirodom, apathy	30 (20.8%)	3(-(25,2%)	_
Impaired vitality	11 (7.6%)	9 (6.3%)	
Thoughts of micide	6 (4.2%)	5 (3.5%)	

a The difference between the figures for the medical expaninations and the psychological interviews was tested for significance using the four-field chi-square test (h.s. = 0.1%; s.s. = 1%; s.c. 5% level of significance).

Table 18,19 (p 48) Reference 2

Of the 144 interviewed there were 16 individuals who suffered less than 25 percent in their working capacity. These results are shown in Table 3.

TABLE 3

Physical and psychological complaints of 16 persons suffering less than 25% reduction in working capacity as a result of persecution

Physical complaints	Absolute Quantity	Psychological complaints	Absolute Quantity
Cardiovacular complaints	7	Anxiety dreems	•
Vegetative complaints	5	Filetrust, difficulty in making social contact	9
Head complaints	5	Internal agitation, irrital filty	8
Stomach complaints	5	Sleep disturbances	
Pulmonary-bronchial complaints	4	Depressive models	7
Dental complaints	3	Anxiety (table	6
Spinai column complaints	3	Tiredness, spathy	5
Rheumatic complaints	2	Feeling of isolation	5
Hearing and sight defects	2	Temporary or partial amnesia, poor concentration	4
Intestinal disorders	2	Paranoid idention	3
injury to timbs following maltreatment	2	Feelings of hatred	2
Urological compleints	1	Discurbed vitality	1
Gynecological complaints	1		
Totai	42	Total	67

Table 17 (p 44) Reference 2

The 18 "non-applicants" mentioned a number of complaints during their psychological interviews. See Table 4.

TABLE 4

Number of physical and psychological complaints mentioned by 18 non-applicants

Physical complaints	Absolute Number	Psychological complaints	Absolut Number
Dyspeptic complaints	5	Anxiety dreams	6
Spinal column complaints	3	Nervousses, irritability	5
Headach -	2	Depressive gapeds	4
Hearing and vision defects	2	Assciety States	3
Pulmonary-bronchial complaints	1	Purtial or temporary amnosis	1
Stomach disorders	1	Tiredness	1
Rheumatic complaints	1		
Gyr:recological complaints	1		
Secrifity	1		
Total	17	Total	20

Table 16 (p 43) Reference 2

The physical and psychological complaints of the 16 individuals who suffered less than 25 percent in their working capacity were compared with the complaints mentioned by the "non-applicants." This allowed a determination to be made about the relative "pathological value" of the "non-applicant" complaints.

In comparing Table 3 with Table 4, it is apparent that the non-applicants had fewer complaints than the 16 applicants. The psychological complaints are especially high among the applicants.

Sample

The USS Pueblo crew at the time of capture consisted of 6 officers, 73 Navy enlisted men, 2 U.S. Marine Corps enlisted men and 2 civilian oceanographers, making a total of 83 crew members. At the time of their release on December 23, 1968, 82 crew members and 1 body were returned to the United States. Since the crew's last group evaluation in March 1969, 1 former crew member reportedly died from carbon monoxide poisoning - the details about his death are unknown.

Methods

A comprehensive booklet was mailed out to 76 former USS Pueblo crew members in April 1977. There were 5 individuals for whom we were unable to obtain a mailing address. The booklet was divided into the following categories: 1) demographic identification, interim update, including changes in the member's family structure; 2) a comprehensive past medical history questionnaire; 3) chronological record of illness and injury from March 1969 to April 1977; 4) details of the specific illness or injury and the outcome of treatment, if any, which occurred during the preceding eight years; 5) the Health Opinion Survey, similar to a shortened version of the Cornell Medical Index, (psychological section) which has been reported in the literature; 6) general symptoms questionnaire which is similar to the common symptoms of the (KZ) syndrome; 7) military service history; 8) family history; 9) education completed or participated in since being released from North Korea; 10) chronological record of residence changes and the reasons for any changes; 11) occupational history since being released from captivity; and 12) sel?-evaluation of the individual's adjustment since his incarceration in 1968.

Data that were obtained or developed from the psychological evaluations conducted in January 1969 and March 1969 will also be used as variables, namely, the results from the MMPI.

There are 81 known Pueblo crew members and we obtained 76 mailing addresses which were thought to be correct. There were 5 Pueblo crew members for which no addresses could be found, 3 individuals who declined to participate and returned the questionnaire booklet, 41 who completed their booklets, agreeing to participate by signing the Voluntary Informed Consent Form, and 32 who did not respond. However, their booklets were not returned and marked -- "addressee unknown."

Thus, of the 76 Pueblo crew members that we believe received an invitation to participate in this survey, 41 or 53 percent agreed to participate and are the subject of this report.

It was necessary to ascertain the composition of the crew members that agreed barticipate, as well as evaluate, those who were not participating.

TABLE 5
USS Pueblo Crew
1977

	Sample, N = 41	
Active Duty	12	
Retired	6	
Medically Retired	5	
Released from Active Duty	16	
Civilians	2	
Total	41	

Most of the Pueblo crew members had completed a Minnesota Multiphasic Personality Inventory (MMPI) soon after being released from captivity in January 1969. No MMPI could be found for one member that participated in this follow-up survey. Forty non-participants were selected, as a comparison group, by using every other name from the alphabetical roster of the crew. The MMPI profiles were examined for 80 Pueblo crew members. The MMPI had been completed in January 1969, within 7 days of the craw's release from captivity. Two attributes of the MMPI profiles were examined: 1) the major pattern of complaints of the 80 men and 2) the similarities and differences between the men participating and those who elected not to participate.

Major Complaint Pattern: The clinical evaluation of the majority of the crew members was corroborated by the MMPI profiles, initially the men were overactive with rapidly changing ideas and emotional lability. The overactivity was, for the most part, not productive. The crew's mood ranged from being good-humored to being irritable with occasional temper outbursts.

Characterological problems were found frequently in the MMPI profile although this type of personality trait is frequently found in the younger enlisted men on active duty. Characteristically individuals that have these traits do not profit from experience and demonstrate difficulty in coping with stressful situations.

Dysphoric symptoms were also noted to be a major complaint. Somatic complaints were frequently recorded, some of which later proved to have a physiological basis, for example, the "burning feet syndrome" -- attributed to peripheral neuropathy. There was only one man in 40 whose MMPI profile revealed no significant complaint.

Mental Status and repeat MMPI examinations conducted three months later revealed that the majority of the crew members had recovered from the overactive, dysphoric mood and affect. The personality disorders had stabilized to their premorbid state and the individuals were functioning as anxiety-free individuals some with recognizable personality disorders. Therefore, the initial MMPI profiles did not represent a fixed psychopathology, but rather, they characterized the manner by which the crew members coped with the stresses encountered immediately following their release from captivity. It should be recalled that the crew members did not know how they would be received by the Navy, their families, or the American public in general. Suddenly they were returned to an accepting, friendly, noisy atmosphere —which was exactly opposite to the environment in which they had been living for the previous eleven months.

Participant's Patterns: Overall, the patterns between participants and non-participants are similar. An empirical difference is present between participants and non-participants on two profiles: 1) participants have more somatic complaints and 2) non-participants show two profiles of no complaint while participants have no such pattern. The number of the cases makes these differences insignificant.

The results of the two MMPI profiles document the clinical impressions that POWs, immediately following their release are falsely euphoric, their affect does not coincide with their verbalized responses, hypersensitive to external sensory stimuli, and have an inability to express negative feelings about anyone or thing except themselves. This state usually continues for a period of £ to 10 days. They frequently recover successfully their premorbid personality traits, if not, they may exhibit some somatic complaints frequently of the hysterical conversion type.

TABLE 6

MM21 profiles for participants and non-participants

Pueblo crewmenters

PROFILE	PERCE	TEST FOR DIFFERENCES	
	Participants (No 40) *	Non-Parsicipants	Z**
Manic/flight feelings	26.8%	31.0%	.52
Manic/characterulogical armor	12.4%	9.3% 9.3%	.58
Characterological - general	26.3%	31.0%	.52
Depressive complaints	15,4%	15,4%	.00
Somatic complaints	12.4%	3.6%	1.83
Paranoid ideation	6.2%	3.6%	.65
No significant complaint	0%	6.1%	2.03

^{*}One MMPI profile was musing for a participant, accordingly, 40 non-participants were randomly relected.

""No significant differences for the two groups of 40,

Results and Discussion

Mean and modal characteristics were used in the summary of the data. Discussion of outcome information is presented descriptively.

Demographic Characteristics

The average age of the participants was 35.6 years ranging in age from 28 to 49. The majority of the men were married and living with their families; (32 were married, 2 were single, 3 were divorced, and 1 had remarried a woman he had previously divorced.) Among the participants at the time of their release on December 23, 1968, 20 were single; (2 had remained single, and 18 are now married.) Three of the men who had been married have subsequently changed their marital status: (1 was separated, 2 were divorced, and 1 of the divorced men remarried his former spouse.) There were 18 participants who were married in 1968 and report that they are married in 1977. Of course, it is possible that a participant was married in 1968, divorced several years later and married for the second time prior to this 1977 survey. One participant who was divorced in 1968 reported that he was divorced in 1977, a widover in 1968, was married in 1977, and one was married in 1968 and reported that he was separated in 1977. The 34 married or previously married participants reported that they had a total of 79 children. (Family size ranged from 1 to 5 children.) The children's ages ranged from 1 to 24, and there were 50 males and 29 females. There were 3 married, 2 divorced and 2 single participants that had no children.

The participants were separated into five groups with regard to their current status with the Mavy Department or the Federal Civil Service Commission. In 1977 there were 12 individuals who were on active duty, 6 had retired, 5 had been medically retired, and 16 had completed their active duty contractual obligation and had been honorably discharged from the naval service. The 2 civilian Oceanographers are still employed by the Federal Civil Service Commission in their specialized field. The 12 participants who were still on active duty each had been promoted to a higher rate or rank, between 1969 and 1977. The average increase in pay grades was 1.5, range (1-3). The 5 participinis who had been medically retired, 2 had received promotions with an average of .08 increases in paygrades, and of the 6 individuals who had retired, 2 had earned promotions, 2 remained at the same paygrade and data about the 2 remaining individuals discharge paygrades were not available.

General Health

The participants were asked to subjectively rate their general physical and emotional health, by years, from April 1969 until the date of their reply in 1977. They were given the choice of rating their health as excellent, good, fair and poor.

Twelve or 29 percent rated their health as excellent in 1969, the average for the eight years was 16 (range 12-18) 39 percent. The high of 18 or 44 percent was reached in 1972 and 1974, in the last three reporting years the number claiming excellent health have been decreasing, mean 16.3 or 40 percent. Nineteen or 46 percent of the participants claimed that they had good health in 1969. This had a range of 17-21, 42 to 51 percent over the reporting time period. In 1974, 21 or 51 percent claimed they had good health, this has decreased in the last three years to 17.8 or 44 percent. Nine, or 22 percent, of the former Pueblo crew members claimed to have fair health in 1969. The average from 1969 to 1977 was 5 or 12 percent, with a range (2-9), 5 to 22 percent. The past three years the number has been fairly constant at 6 individuals, or 15 percent. One or 2 percent of the participants claimed to be in poor health over the years except for the years 1973 and 1974. This resulted in a mean of 0.7 individuals or 1.4 percent of the sample.

The participants were requested to rate the degree of their physical disability. None were totally disabled but 9 individuals, 22 percent, reported that they were

partially disabled. Eight of the partially disabled individuals reported that they were:

- 1) unable to work in their usual occupation,
- 2) unable to participate in their desired or usual social activities, and
- 3) seven were unable to participate in their usual leisure time activities or hobbies. Thus, 20% of the participants' partial disability markedly interferred with this ability to seek gainful employment in their experienced field and/or enjoy their preferred social life. One individual who was partially disabled takes prescribed medications daily and two take non-prescribed medications on a daily basis. None of these individuals require assistance from others on a daily basis because of their disability.

Specific Illnesses and Injuries

The participating Pueblo crew members were asked to complete a number of detailed questions about each illness or injury that occurred to them during the period April 1969 until 1977 when they completed the mailed out questionnaire. (here were seven individuals who reported no illnesses or injuries. The remaining 34 participants reported a total of 132 illnesses or injuries(range 1-12), mean 3.85. Eight or 23% of the participants, who had illnesses, reported 55 (41%) of the 132 illnesses. There were two who had six, and two with nine reported illnesses. There were four who had 7, 10, 11, and 12 illnesses respectively.

The participants were asked for the specific name of each illness, if known, 67 (50.8%) expressed confidence in the diagnostic label, 61 (46.2%) provided layman's terms in describing their symptoms, and four (2%) did not attempt to answer that specific question.

The diagnosis was made by a physician in 63.6% of the cases, by a medica? practitioner or paraprofessional in 8.4%, self-diagnosed 13.6%, and in 14.4% of the illnesses this question was not completed.

The following types of treatment were given for the 132 medical episodes.

TABLE 7
Types of Treatment

Trearment	No	*
Nuor	37	28.0
Surgery	14	10.6
Physical Therapy	7	5.3
Psychotherapy/Cownecting	4	3.0
Rediction Telerapy	1	0.8
Special Dier	11	3.3
tied Rest	18	13.6
OrSer/Not Applicable	33	25.0
Not Reported	7	5.3
Total	132	100,0

The profession or title of the individuals providing the treatment were identified as follows:

TABLE 8

(Assimont	No.	*
Self-Treated	25	18.9
Physician	53	40.2
Concopath	1	0.5
Chiropractor	1	0.8
Psychologist	2	1.5
Not Applicable	41	31.1
Other	8	6.1
Missing Data	r.	0.8
Total	132	100,0

The year in which the illnesses began was requested. The Pueblo crew members were repatriated on December 23, 1968 and some of them dated the year of onset as 1968.

TABLE 9
Year of Onect

Year	No.	%
1968	27	20.5
1969	22	16.7
1970	14	10.6
1 9 71	6	4.5
1972	4	3.0
1973	8	6.1
1974	8	6.1
1975	9	6.8
1976	13	9.8
1977	13	9.8
Missing Data	8	6.1
Total	132	100.0

For 108 of the illnesses or injuries there were no hospital days accrued. There were 23 episodes for which 153, range (1-17), mean 6.65, hospital days were required to provide treatment. There was one case for which we had no data.

The number of days of work that were missed because of illness, if the participant was not hospitalized, were tabulated. There were 97 episodes for which no lost time from work was recorded. The sick days lost by 32 individuals totaled 387 days (range, 1-45), mean 12.09.

The participants were asked if in their opinion, do you believe this medical episode was related to your incarceration by the North Koreans?

TABLE 10
Relationship of Illness to Captivity Experience

No.	*
50	37.9
15	11.4
37	28.0
27	20.5
3	2.3
132	100.0
	50 15 37 27 3

The question was asked about the ourcome of the illnesses as the final question in this part of the mailed-out questionnairs booklet.

The participants reported that they had recovered from 62 of the 132 episodes, while 45 were "unchanged" and 13 were "somewhat better," and 9 or 6.8 percent became "worse":

TABLE 11
Outcome of Illness or Injury

No.	
	*
62	÷7.0
45	34.1
13	9.8
9	6.8
132	100.0
	45 13 9

There were 17 diagnostic categories totaling 53 episodes that were reported as occurring more than once. These diagnoses and the incidence of occurrence can be seen in Table 12.

TABLE 12

Most Common Diagnoses Reported By
USS Puchlo Crew Participants

ICDA-8	Name	No.	*
4700	Influensa (location unqualified)	7	5.3
7816	Disturbance in consistion (miscellaneous type)	7	5.3
7910 .	Headaches	5	3.8
5329	User of decimen	4	3.●
5500	Inguinal hernia	4	3.●
381.9	Oxide seedin with manual invovement	3	2.3
7287	Lembalgia	3	2.3
1101	Dermatophytesis (feet)	2	1.5
4510	Phirbitis and thrombophishids (lower extremity)	2	1.5
5350	Gestricts and decidents	2	1.5
5369	Disorders of function of stamach (other)	2	1.5
6010	Prostatitie	2	1.5
6929	Resente and dermetics (other)	2	1.5
7289	Vertebrogmic pain syndrome	2	1.5
7805	Vereige	2	1.5
7873	Pala in joint	2	1.5
8160	Processor of one or more phalangus of hand (classed)	2	1.5
	Total	53	40.0

The remaining 79 medical diagnoses which occurred only once are listed in Table 13. These conditions are included in tabular form to demonstrate the diversity of illness, symptoms/conditions that occurred in this unique group.

TABLE 13
Medical Episodes Which Occurred Once

DA-8	Name	ICDA-8	Name
100059	Food poisoning, unspecified	6040	Orchich/epididymich
500067	irritation of congue while recuperating/operation	6076	Disease of make genical argues/subscribencous type
88000	Patrilectomy	6860	Pyodomia
100069	Surgery to close reopened wound	6963	Pityriade rossa
91	Diarrhea, NOS	7099	Disease of skin/miscallaneous type
340	Streptococcal sove throat	7171	Scapulchumand myoffbrooks
789	Viral conjunctivitis, unspecified	7244	Recurrent dislocation of know
980	Gonococcal infection G/II tract, acute	7288	Redicular syndrome of lower limbs
1991	Melignant neoplasm with specifying site	732-)	Infective myoritis and other inflammatory disease of
2422	Thyrotoxicosis without mention of goiter		tendon and feeds
26 69	Nuvitional deficiency, miscellaneous/unspecified	7803	Abnormal involuntary movement
2859	Anemia, NOS	7807	Distantance of memory
2893	Lymphalenitis, unspecified	7810	Disturbance of vision/except defective sign
3004	Depressive neurosis	7625	Syncope or colleges
3052	Physical disorders, presumably psychogenetic	7837	Pala in chest
3055	(respiratory)	7857	Mclens
30 33	Physical disorders, presumably psychogenetic (restro-in testinal)	7874	Swelling in joint
3460	Misraine	7881	Excessive owesting
3701	Hyperopia	7893	Hemotoria
3705	Astirmatism	7900 8440	Nervoussem/nervous tension
3709	Refractive error/miscellaneous/unspecified	8451	Speak or strain of knowley
3790	Blindness, both tyes, specifically defined	8478	Speak or strain of foot
3849	inflammatory disease of per/miscellaneous	8480	Sprain or strain of back
3890	Impairment of hearing, one or both ears	8700	Other and it defines speaks and strains Open wound of eye and epit without complications
4010	Ementical benden hypertension	8737	Leceration, miscellaneous location on face
4139	Angina pectoris without hypertension	8830	Open wound of fingers without complication
4550	Hemorrhoids	9239	——————————————————————————————————————
4600	Acute nasopharyngitis	9240	Contraion of shoulder and upper arm/late effect Contraion of albow, forearm and wrist/maximt
4660	Acute brenchitis	, , , , ,	Contrains of abow, foreign and wrist/less office
4720	influenza with non-pneumonic respiratory	9961	Injury, miscellaneous or unspecified/t-unit
4860	Pneumonia, type unspecified	7701	miney, macrostrous or components (422
4900	Bronchitia NOS	1	Symptoms
5040	Deviated name septum	43161	Marital malediastment, Grade I
5110	fleurisy without mention of effusion or TBC	45257	Retained root
5206	Disturbance in tooth eruption/impacted molar	47812	Sensitivity to ultra violet light (one or both eyes)
5282	Apthous ulcerations	47911	Handaches, related to eyesight
56 50	Anal fisture	1	
5769	Disease of gali bladder/bliary ducts	1	
5920	Calculus of kidney or ureser	1	
5935	Disease of ureter/miscellaneous type	Missing	
5980	Stricture of wrethin	data	One medical episode
5999	Other and unspecified diseases of uninary tract	ı	

Health Opinion Survey

The participants had been asked to rate their general health, by years, since repatriation. Those results have been reported in an earlier section of the results.

The Health Opinion Survey (HOS) is a 20-item instrument that has been shown to provide the basis for an efficient mental health survey. 15 The (HOS) questions are not obviously

related to mental illness, participants seem to be less reluctant about reporting sleep pattern disturbance, trembling, palpatations, dyspnea, headaches, migraines, and so forth. It has been found that items in the Cornell Medical Index (CMI) which best directly refer to mental illness. 15

The (HCS) scores were computed in accordance with the method recummended by the Cornell Program in Social Psychiatry: responses to item 1 were weighted 1 ("Yes") or 3 ("No"), items 2-20 were weighted 1, 2, or 3 corresponding to "Often", "Sometimes", or "Never". This weighted scoring made it possible to have a total score on the HOS and to compare individual item scores among the participants. The higher the score, range 20-60, the better the mental health of the individual.

There were three participants who did not answer enough of these 20 items to make their results valid, therefore, their results were not included; another three failed to answe one of the 20 questions, their results were included in the totals. The total mean score of the HOS for 38 participants was 47.47, range 36 to 56. The participants' total (HOS) scores were separated into three groups which resulted in having eight in the low range (36-43), mean 39.75; twenty-one in the mid-range (45-51), mean 47.80; and nine in the high range (52-56), mean 53.55.

The 20 items were examined to determine if there were specific areas that identified particular difficulties to the participants.

The combined percentages for those answering "often" and "sometimes" in items 2-17, and 20 revealed that the greatest problems in their order of difficulty were:

- 1) "tend to feel tired in the morning", 73%,
- 2) "bothered by an upset stomach", 63%,
- 3) 33% reported that they smoked "a lot", and 28% smoked "some" while 39% "do not smoke at all",
- 4) 54% reported that they "feel weak all over",
- 5) 52% reported both "trouble getting to sleep and staying asleep",
- 6) 49% are bothered by "nightmares",
- 7) 49% "sometimes wonder if anything is worthwhile anymore", and
- 8) 46% "have a particular physical or health problem at the present.

The combined percentages for those participants answering "often" and "sometimes" revealed that the fewest problems were concerned with sometic problems. For example:

1) 24% were "troubled by 'cold sweats'",

- 22% were "bothered by all kinds of ailments in different parts of their body",
- 20% reported that they had "been bothered by their heart beating hard",
- 4) 17% were "troubled by their hands and feet sweating--so that they feel damp and clammy",
- 5) 10% reported that "their hands trembled enough to bother them", and
- 6) 10% reported that they "tend to lose weight when they worry".

In summary: the highest percentages of the HOS items probably indicate that the individuals were experiencing several signs and symptoms consistent with a depressive reaction.

The (HOS) items and how the participants responded by number and percentage can be seen in Table 14.

TABLE 14
Results from the Participants' Health Opinion Survey

ltem		Yes No. %		Na No. %				Missi Las No.	
1.	Do you have any physical or health problems at the present?	19	46.3	20	48,8			2	4.9
ltem		Often Na 8		Sometimes No. %		Never No. %		Missing Data No. 1	
2.	Do you: hanos ever tremble ecough to bother you?	0	0	4	9.8	35	85.4	2	4.9
3	Are you ever troubled y your names as feet sweating so that they feel damp and claumy?	1	2.4	6	14.5	31	75.6	3	7.3
4.	Have you cretilizen bothered by your heart beating hard?	0	0	8	19.5	. 29	70.7	4	9.8
5 .	Do you tend to feel sired in the morning?	6	14.6	24	58.5	8	19.5	3.	7.3
6.	Do you have any trouble gesting to sleep and staying ancep?	ů	14.6	15	36,6	19	46 3	1	2.4
7.	Slow often are you betiered by having an upset stomach?	3	7.3	23	56.1	. 12	29.3	3	7.3
8.	Are you ever bothered by nightnares (dreams that fright on you)?	2	4.9	18	43.9	19	46.3	2	4.9
9,	Have you ever been troubled by "cold remain"?	1	2.4	9	22,0	30	73.2	1	2.4
O.	Do you fee! the " ou are tinticzed by all kinds of silments in different parts o. 3 our body?	0	0	9	22,0	30	73.2	2	4.9
11.	Do you smoke?	13	31.7	11	26.8	16	39.0	1	2.4
2.	Do y u ever have loss of appetite?	0	0	15	36.6	25	61.0	1	2.4
3.	Has any all health affected the amount of work you do?	1	2.4	15	36.6	23	56.1	2	4.9
14.	Do you ever feel wesk all over?	2	4.9	20	48.8	17	41.5	2	4.9
5.	Do you ever have spells of dissiness?	2	4.9	15	36.6	23	56.1	1	2.4
16.	Do you tend to lose weight when you worry?	0	0	4	9.8	35	85,4	2	4.9
17.	Have you ever been both red by shortness of breath when you were not exerting yourself?	0	0	11	26.8	29	70.7	1	2.4
8.	For the mo t part, do you feel healthy enough to carry out the things that you would like to do?	34	82.9	4	9.8	1	2.4	2	4.9
19.	Do you feel in good spirits?	29	70.7	•	22,0	2	4.9	1	2.4
8 0.	120 you sometimes — Ner if anything is worthwhile any more?	3	7.3	17	41.5	19	46.3	2	4.9

General Symptoms

The participants were advised that several authors of previous scientific articles had reported the occurrence of certain symptoms in former repatriated prisoners of war and/or concentration camp survivors. 1,2,13,14 These symptoms usually are late in appearing, beginning sometimes five years after the individuals are released from incarceration. The symptoms may be insidious in onset and go unrecognized by examining physicians assuming that the subjective complaints are a consequence of the individual's normal aging process.

An instrument was made using 13 items, 11 of which were identified by Eitinger as comprising the concentration camp (KZ) syndrome, the other two have been reported as occurring in this population. 13

The Pueblo participants were asked to indicate if they have experiences these symptoms since April 1969. There were three choices available "often", "sometimes", or "never", and the answers were weighted (1), (2), or (3) respectively. The total weighted score was obtained for each participant and individually by iten numbers. The higher the score, range (13-39), the better the adjustment of the individual.

The combined percentages for those answering "often" or "sometimes" in items 1 to 13 revealed that the greatest problems in their order of occurrence were:

- 83% reported that they had "nervousness, irritability, restlessness", and "fatique",
- 2) 71% admitted having "difficulty in controlling their temper",
- 3) 61% reported "failing memory and difficulty in concentrating", and "a lack of interest in what they used to be interested in",
- 4) 56% reported having "emtional instability", "depressive episodes", and "loss of initiative",
- 5) 54% reported experience "sleep disturbances", and
- 6) 49% had "feelings of insufficiency and inadequacy".

The somatic complaints were reported in few instances "dizziness" 42% and "headaches" occurring in 37% of the participants.

In summary, these General Symptoms which are synonymous with the concentration camp (KZ) syndrome again reveal many depressive symptoms lending consensual validation to the results reported in the (HOS) instrument.

The complete results of the General Symptom questionnaire can be found in Table 15.

TABLE 15
General Symptoms: Consistent with the Concentration Camp Syndrome Symptoms

	Symptom		Often		Sametimes		Never		Missing Data	
						<u>No. '6</u>		No. S		
ı	budding memory and difficulty in concentrating	1	7.3	22	53,7	15	36.6	1	2.	
2.	Nervousness, irritability, restlessness	н	19.5	26	63.4	5	12.2	2	4.	
1	Patyuk	6	14.6	28	68.3	6	14.6	1	2	
÷	Sleep Disturbances	4	9.8	18	43 "	18	43.9	i	2.	
٧.	Herdaches	10	24.4	16	39,0	14	34.1	1	2	
r	Emotional instability	y	o	15	₹6,6	25	61.0	ì	2	
7	Depressive Episodes	3	7.3	20	48.8	17	41.5	1	2	
H	Vertiga or Doziness	2	4.9	15	36,6	23	56.1	1	2	
¥.	Loss of Initiative	4	9 R	19	46.3	17	41.5	ſ	2	
O.	A lack of interest in what you used to be interested in	0	ø	25	61.0	15	36.6	1	2	
1.	Feelings of insufficiency and inadequacy	4	9.8	16	39,0	20	48.8	1	2	
2.	Periods when alcohol is used to excess	2	4.9	14	34.1	24	58,5	1	2	
3.	Difficulty in controlling one's temper	6	14.6	23	56.1	11	26.8	1	2	

Education

At the time of the participants' incarceration on January 23, 1978 only four members had less than a high school education. The average years of education completed at the time of capture was 13.4 years, range (9-20).

The participants were asked to document their educational experiences since April 1969. Twenty seven, (65%) of the participants reportedly had obtained some type of additional education. There were two who attended high school and one graduated. Six attended a vocational school for an average of 11 months, four went full time and three graduated. Nine of the participants attended a Junior College for an average of 23 months, four attending full time, and six earned an Associate in Arts (AA) Degree. Eight attended a four-year college for an average of 30 months' duration, six were enrolled full time, and five received their degree. Six of the participants enrolled in graduate school, two attended full time for an average of 13 months, and three graduated. Eight patients enrolled in some form of correspondence course, and four completed the course which lasted for an average of 16 months.

The additional education obtained by the Pueblo participants is considered to be impressive. This supplemental education was obtained between May 1971 and May 1975. Is

there a relationship between the apparent delayed effect of the poorer health, reported by the participants, and their failure to seek parther education since May 1975?

Residence Locations

There were 38 participants who completed this section of the questionnaire. The average number of residency moves was 3.9, range (1-8): 74% lived in a house, 21% in apartments, one individual occupied a condominium, and one a mobile home; 60% owned or were buying their place of residence while 35% rented and 5% lived in government housing. Only four individuals lived with someone other than their spouse, i.e., one with his parents, one with his wife's parents, and two with a friend.

Civilian Occupations

The 29 non-military participants reported that since April 1969 they had had an average of 2.6 full time jobs (range 1-12 years). Twelve individuals had been on their most recent job for an average of 30 months, range (7.9 to 0.1 years). The method of their earned compensation was: 55% were paid by the hour, 26% were salaried, 15% were self-employed, and 4% were on salary plus commission. There were 82% of the individuals that were supervised and 18% that received no supervision in their employment. The number of individuals that the participants supervised varied from none, 65% to 35% who supervised employees, range (1-21+).

The job title listed by 21 of the participants are listed in Table 16 to demonstrate the diversity of interests among the participants.

TABLE 16
Current Job Titles
N = 21

job tule	No.
Physics, Ozeanography	1
Agricultural Sciences	1
History	1
Secondary Education	1
Painter (Artist)	1
Accountant and Auditor	i
Miscellaneous Management	1
Ship's Captain, Mate or Engineer	1
Miscellaneous Professional, Technical or Managerial	1
Mail Carrier	1
Janitor	1
Processing of Chemicals	1
Mechanic and Machine Repair	1
Pabrication and Repair - Metals	1
Assembly and Repair - Electronics (Radio, Television)	1
Assembly and Repair - Electrical Appliance	1
Assembly and Repair - Electrical Accessories	1
Assembly and Repair - Equipment (Not Elsewhere Classified)	1
Miscellaneous Transportation Occupations	1
Packaging and Material Handling Occupations	2
TOTAL	21

Adjustment

Following a prolonged period of stress which was relatively similar for the entire group we were interested in finding out how such an experience, albeit subjectively evaluated, might affect the individual's adjustment pusu-incarceration.

The participants were requested to answer <u>each</u> of the questions asked; however, as you might expect, the directions were not strictly followed.

TABLE 17 Effects of Being a Prisoner

Fffect	YE	NO	,	MISSING DATA		
	No.	*	No.	*	No.	*
Has had no effect on me	9	22	21	51.2	11	26.8
Was responsible for changing my life	24	58.5	12	29.3	5	12.2
Things are better	21	51.2	10	24.4	10	24.4
Things are worse	2	4.9	26	63.4	13	31.7
Things are no different	7	17.1	22	53.7	12	29.3

The first and last question in the above table remain relatively stable, while 24 of the participants report that being a prisoner "was responsible for changing their lives", 21 report for the "better", and two believed that "things are worse".

The participants were invited to make comments following each of the adjustment sections. These are a representative sample:

"No one can truthfully reply that his life has not changed after being a prisoner of a communist country." $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \right)$

"It was a difficult period, but i have become more appreciative of the freedom I used to take for granted."

"Experience was very revealing, about one's own capabilities and limitations. My religious convictions were strengthened. The experience sharpened my political awareness as well."

"A long period of transition--bad to worse--bad to good--hard to adjust and settle down."

The participants were asked, "How do individuals react to you when they find that you were a member of the USS Pueblo crew?" The participants' answers were somewhat contradictory, for example: 51% said it makes it easier to know people; 7% felt that it was more difficult to meet individuals; 37% claimed it made no difference; however, 37% also tried to avoid letting people know that they had been a member of the USS Pueblo crew.

During the period of imprisonment the Pueblo crew members had been subjected to lectures about the negative aspects of the imperialistic/capitalistic system of government. Some of the crew members had also been given a thinly veiled threat that following their release, attempts to contact them by Communist agents could be expected. The participants were asked and two individuals felt that they may have been contacted by North Korean agents.

"I have been threatened by what I believe to be domestic street Communists-plus three bomb threats, '-- no threats for the past several years now."

"In 1972 I received a threatening letter from Korea through Mexico. The letter is on file with Naval Intelligence and the Federal Bureau of Investigation."

"No, I haven't been contacted--however, I would welcome the opportunity to meet several on neutral ground."

The participants were asked if they had ever been in a situation, since April 1969, that brought back memories of their imprisonment. Fifty-nine per cent of the participants reported that they had experienced this sensation.

Some of the representative comments are quoted:

"When ABC-TV presented the story of the Pueblo based on the Board of Inquiry-each time I have a Veteran's examination-- and when the American prisoners of war were raleased from North Vietnam-- result nightmares."

"A high-watt bulb with no shade-- eating a certain type of sou lough bread-- visiting the Duane Hodges* Memorial in Creswell, Oregon."

'A day hardly goes by that I don't remember the USS Pueblo and the imprisonment. Remembering this causes me to reflect back to those very sad frightening days."

"Certain films have evoked for shore periods the feelings of imprisonment by strange and alien people who have control over one's fate; encounters with police or military can, on occasion, produce the feeling of inner rage at stupid brutal people."

"Depression, feelings of uncertainness, confinement on a psychiatris service, and nightmares."

In an effort to learn from those individuals who had experienced this unique stress, the participants were asked to suggest what assistance could be provided to American prisoners of war incarcerated by orientals during their re-entry into western society. Eighteen or 43% of the participants made some recommendations, several of the comments are quoted.

"The problems may not be geographically related, but the constant uncertainty and lack of information about the captors make it extremely difficult to make decisions or deal with them on a one-to-one basis."

"It affects evaryone involved in some way or another. Things are never the 'sam' you are not the same."

^{*} Duane Hodges was the crew member killed during the capture of the USS Pueblo (AGER-2).

'There is a double problem and it is difficult to disassoriate the effect of being a prisoner from the effect of encountering an alien culture/form of government (i.e., the North Koreans and a Communistic society). On returning to the United States the experience can seem like a dream, yet one realizes that people and 'things' have changed. It become difficult, if not impossible, to explain one's experience and this creates distance between yourself and 'others'."

"Readjustment to a half-way normal life after return to the United States depends largely on the degree of guilt feelings brought back by the P.O.W."

There were 24% of the participants who reported that it was difficult to re-establish friendships in the first year or two after being released from North Korea. The same individuals indicated that at the present time it is difficult to form friendships. There were 20% who are now out of the service that find civilian life difficult in some respect. This is the same percentage that are partially disabled.

The participants recreational choices have changed very little when comparing the first two years following their release with the present time. There are 11% who enjoy team sports with the extent of their participation unknown; 36% participate in individual sports; 4% enjoy group social activities; 34% pursue solitary activities; and 20% failed to complete this portion of the questionnaire. The majority of the participants are very satisfied or somewhat satisfied with their social and recreational activities during the first two years and presently.

The Veterans Administration benefits have been sparingly used except for schooling under the G.I. Bill and 16 or 39% of the participants have used this benefit. Eight or 20% of this group indicate that the Veterans Administration or the U.S. Navy could have been of more assistance in helping them return to civilian life.

"...too quick to dismiss and forget the whole issue--as if they wanted to forget about it and move along."

"I have had long correspondence with the V.A. for some medical help. They were so hard to deal with that I got a lawyer but even he couldn't

make out where they were coming from. He finally said if they had their minds made up, we could never win."

"Under the G.I. Bill I was able to completely pay for a college education plus put several thousand dollars away in savings. Neither the V.A. nor the Navy could've done more, in my opinion. Most of us on that ship weren't drafted, we enlisted. How much have we a right to expect them to do?"

I've never experienced so many people, and not just out of duty or respondibility, ready and eager to help."

Finally, in the section dealing with the participants' adjustment, the question was asked: "...are you experiencing any problems in your daily living that you trace to your imprisonment in North Korea?" There were 37% who answered this question in the affirmative, 32% responded negatively, 22% indicated that they had no problems, and 9% failed to answer this question. The participants were asked to make comments if they answered 'yes' to this question, a representative sample of the comments are included.

"Frustration with people."

"Nothing physically incapacitating but they're there--nose, leg, eyes-as annoyances. Counseling has helped me too. Military and V.A. are not people-oriented and I don't like non-human treatment so I go to private doctors."

"Sometimes I cannot concentrate. My memory is dull but when my knee hurts, it reminds me that if I had not been a POW I would still be in good physical condition."

"I have difficulty in giving briefings and had to give it up; however, with counseling and medical assistance I am regaining this skill."

"I'm still angry the way everything was handled from the day the Pueblo was thought up--until now."

"Depression--leg problems, and suppressing emotional problems."

"I find it difficult to understand or tolerate the complacency of younger people and my children in particular, appreciation of our basic rights and freedoms are taken much too lightly."

Conclusions

This highly representative sample of USS Pueblo crew members who participated by completing a mailed-out survey questionnaire reported many subjective medical/adjustment complaints. The cluster of medical symptoms were similar to the symptoms described by other investigators as comprising the concentration camp (KZ) symptomatology. 2,13,14

The similarity of the KZ symptoms with those which make up the usual manifestations of depressive neurosis was pointed out. These data have not suggested any specific etiological factors or combination of causes. The only common denominator documented with the Pueblo

crew members has been that the subjects in all of the referenced studies have been repatriated POWs or concentration camp survivors.

Approximately 20% of the Pueblo participants are partially medically disabled apparently as a result of the imprisonment experience, and 37% are currently experiencing problems in their daily living that are attributed to the imprisonment in North Korea.

The hypothesis that repatriated POWs/concentration camp survivors are in a high risk category for developing late medical disability sequelly cannot be specifically proved, the absence of an acceptable control sample precludes making such a definitive statement. The subjectively self-reported medical condition of these participants lends substantial credibility to the thesis that delayed medical problems can be expected to occur in a population of repatriated POWs at a greater rate than would be expected for their mean chronological age (35.6 years).

One of the participants described in explicit detail his difficulties in adjusting to returning and his current everyday life.

"It becomes difficult, if not impossible, to relate one's experience to those around you, and this then creates a distance between the former POW and others which creates a certain experience regarding the imprisonment experience. The period of imprisonment probably relates to the sense of isolation and confusion. Ours was for eleven months; however, the effects were perceptable on our attitudes and self-image upon return.

"What we experienced ranged from brutality to indoctrination lectures. All this notwithstanding, the sensation of estrangement and dislocation was there. One symptom of this disruptive influence noted above that I have experienced is the feeling of a double life--one person having lived two lives as the same person. Normalcy is one's everyday life back in the United States. However, when something happens that flashes me back to that other life as a prisoner in Korea, I have the sensation of literally stepping out of the present reality into another world; for example, my karate teacher was Korean and certain of his mannerisms and his edor of garlic from eating Korean food would bring back certain memories of guards in Korea--my momentary emotion was hostility and distaste--but these emotions soon passed; reading about the Poplar Tree incident in the CMZ in 1976 brought back the feeling of rage at the stupidity and brutality of our guards. In my case these experiences are not debilitating or disruptive.

"The best 'remedy' I have found to this experience is to become actively involved in an activity that is enjoyable or that you otherwise want to do, and to reintegrate into some aspect of the present reality and thereby overcome the feelings of disorganization, isolation, and perhaps persecution.

Easier said than done."

REFERENCES

- 1. Beche, G.W., Follow-up Studies of World War II and Korean War Prisoners. II. Morbidity, Disability, and Maladjustment. *American Journal of Epidemiology*, 1975 (May), 101(5), 400-422.
- 2. Matussek, F. Internment in Concentration Camps and Its Consequences. New York/ Gelberg/ Berlin: Springer-Verlag, 1975.
- 3. Spaulding, R.C. & Ford, C.V. The Pueblo Incident: Psychological Reactions to the Stresses of Imprisonment and Repatriation. *American Journal of Psychiatry*, 1972 (Jul), 12), 17-26.
- 4. Ford, C.V. & Spaulding, R.C. The Pueblo Incident: A comparison of factors related to coping with extreme stress. *Archives of General Psychiatry*, 1973 (Sep), 29(3), 340-343.
- Spaulding, R.C. The Pueblo Incident: Medical problems reported during captivity and physical findings at the time of the crew's release. Military Medicine, 1977 (Sep), 142(9), 681-686.
- 6. Brandt, E. The Last Voyage of the USS PUEBLO. New York: W.W. Norton & Co., Inc., 1969.
- 7. Bucher, L. Bucher: My Story. New York: Doubleday & Co., 1970.
- 8. Murphy, E. Second in Command. New York: Holt, Rinehart & Winston, 1971.
- 9. Harris, S. My Anchor Held. New Jersey: Fleming H. Revell Co., 1970.
- 10. Schumacher, F.C. Bridge of No Return. New York: Harcourt Brace Jovonovich, 1971.
- 11. Nefzger, M.D., Follow-up Studies of World War II and Korean War Prisoners. I. Study Plan and Morbidity Findings. *Journal of Epidemiology*, 1970 (Feb), 91, 123-138.
- . 12. Segal, J. Long Term Ingchological and Physical Effects of the POW Experience. A Heview of the Literature, (Report No. 74-2). San Diego: Naval Health Research Center, Center for Prisoner of War Studies, 1973.
 - 13. Eitinger, L. Pathology of the Concentration Camp Syndrome. Archives of General Psychiatry, 1961 (Oct), 5, 371-379.
 - 14. Thygesen, P. & Hermann, K. Die Wirkungen des KZ Syndromes, 19 Jahre danache-eine medicomociale Analyse. Trans. IV Intern. MED Kongr. der Int. Foderal. der Widerstandskampfer (FIR), Bukarest, 1964.
 - 15. Gunderson, E.K.E., Arthur R.J., & Wilkins, W.L. A Mental Health Instrument: The Health Opinion Survey. Military Medicine, 1968 (Apr.), 133(4), 306-311.

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THE PUEBLO INCIDENT: A FOLLOW-UP SURVEY CONDUCTED FIGHT YEARS AFTER THE BELEASE OF THE	Final rept.						
USS PUEBLO CREW FROM NORTH KOREA.	5. PERFORMING ORG. REPORT NUMBER						
Raymond C./Spaulding	F51504						
Naval Health Research Center San Diego, CA 92152	10. PROGRAM ELEMENT, PROJECT, TASK PEN A WORK UNIT NUMBERS (17) GETTON MF51 524 Ø22 0005						
Naval Medical Research & Development Command // Bethesda, MD 20014	October 07 Pages						
Bureau of Medicine and Surgery 230. Department of the Navy Washington, DC 20372	Unclassified 18. DECLASSIFICATION/DOWNGRADING SCHEDULE						
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USS PUEBLO Adjustment POW Follow-up Medical Studies							
The 81 surviving USS Pueblo crew members* were psychiatric examinations on 23December 1968. This their release after eleven months' incarceration I The last group medical examination of the Puebl A questionnaire was mailed in early 1977 to the Puestions requested information regarding their he April 1969. The incidence and scope of symptoms a	by the North Koreans. To crew was in April 1969. The members. The						

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disability, marital adjustment and current life styles was addressed. The survey inquired into the following major areas: A) interim medical history and chronological development of illnes, if applicable; b) occupational experiences; c) educational experiences; d) marital history including children; e) residential history; f) interpersonal relationships; g) military experience and, h) attitudinal changes as influenced by the incarceration experience.

* Voluntary Informed Consent: Each individual that participated in this study signed a detailed Voluntary Informed Consent form which in part contained the following: "I also consent to have my data used in any published scientific reports of this investigation, subject to the assurance of anonymity."

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